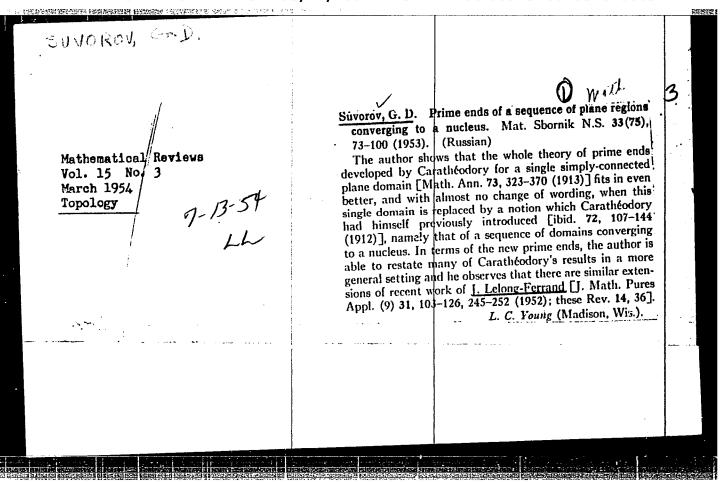
	SOV/137-58-9-1824
Translation	rom: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p4 (USSR
AUTHORS:	Tyurenkov, N.G., Suvorov, F.S.
TITLE:	Concentration of Bakal Ores (Obogashcheniye bakal'skikh rud)
PERIODICA	.: V sb.: Vopr. razvitiya Bakal'sk. rudn. bazy. Sverdlovsk, 1957, pp 201-210
ABSTRACT:	The results of investigations on the capacity for concentration of Bakal ores are presented. It is noted that ~75% of these ores can be prepared for smelting by drying, screening, and agglomeration of fines. The would demand more complicated procedures with magnetizing roasting followed by magnetic separation. The most important problems demanding solution in further investigation are indicated.
	1. OresConcentrates 2. OresPreparation 3. OresSeparation 4. OresAnalysis
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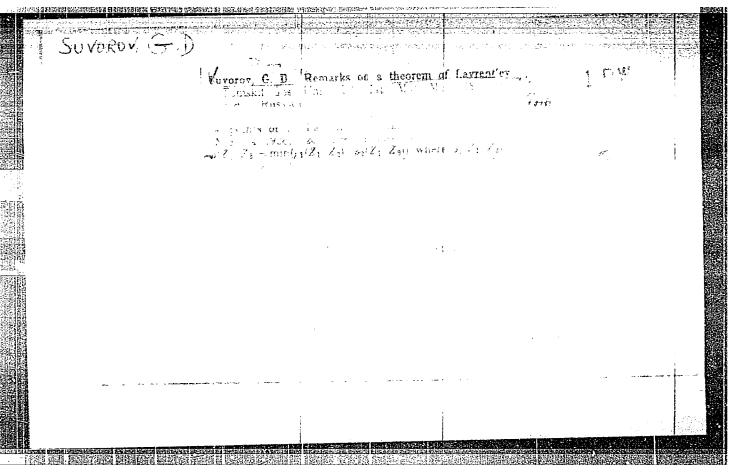
AUTHORS: STITLE:	The Concentra shcheniye mag Tr. N, -i. i pp 98-105 The results of concentration	Kvaskov, A. P. tion of Magnetite Onetitovykh rud Seve proyektn. in-ta "C	Jralmekhanobr", 1957, Nr 1, nvestigation of the feasibility
AUTHORS: STITLE:	The Concentra shcheniye mag Tr. N, -i. i pp 98-105 The results of concentration	Kvaskov, A. P. tion of Magnetite Onetitovykh rud Seve proyektn. in-ta "C	Ores of Northern Ural (Oboga ernogo Urala) Uralmekhanobr", 1957, Nr 1, nvestigation of the feasibility
AUTHORS: STITLE:	The Concentra shcheniye mag Tr. N, -i. i pp 98-105 The results of concentration	Kvaskov, A. P. tion of Magnetite Onetitovykh rud Seve proyektn. in-ta "C	Ores of Northern Ural (Oboga ernogo Urala) Uralmekhanobr", 1957, Nr 1, nvestigation of the feasibility
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PERIODICAL	r. Ni. i pp 98-105 The results of concentration	proyektn, in-ta "[are given of the in	Jralmekhanobr", 1957, Nr 1, nvestigation of the feasibility
ABSTRACT:	of concentration	are given of the in	nvestigation of the feasibility the Northern Ural originating
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Fe concentrate; c) apatite fition to obtain Cu and Cu-FeS the tallings of the flotation for tion of the Fe concentrates. of concentrating ores of the the layout of the Serov ore-d	otation to re 2 concentrat or supplemen The results	move tle; d) natary ex	ne phosph lagnetic o traction o	of Fe: el	paration	on of	
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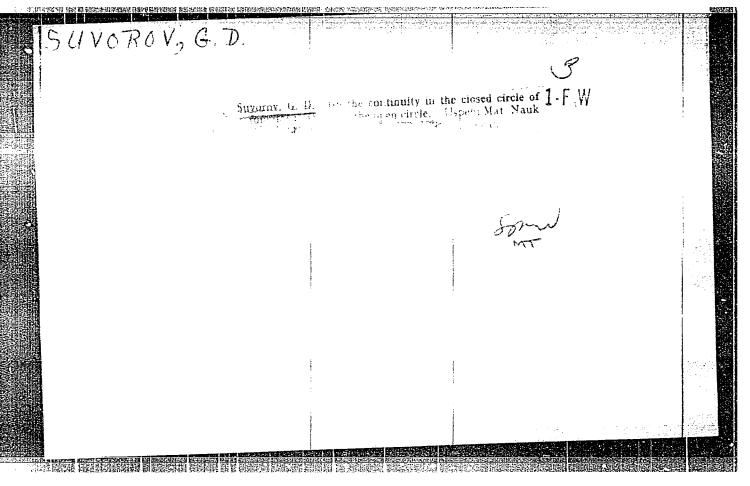
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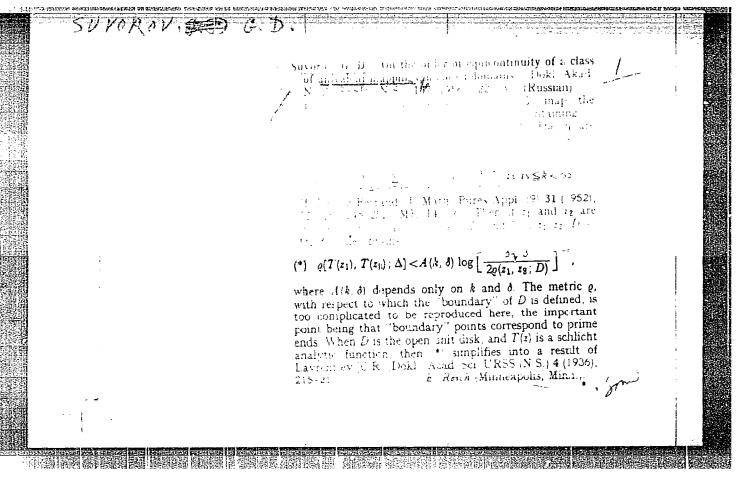
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Stechkin, S. B. (Moscow). of the Orthogonal Series.	Problem of Abso	lute Convergence	103
There is 1 USSR reference. Suvorov, G. D. (Tomsk). Mappings of Arbitrary	n the Continuity Closed Regions.	of Univalent	103-104
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SUBJECT AUTHOR TITLE PERIODICAL	USSR/MATHEMATICS/Theosuworov G.D. On the continuity of regions. Doklady Akad. Nauk reviewed 11/1956	schlicht mapping	s of arbitrary	PG - 355 closed	
formulated of schlicht their image	er paper (Doklady Akad a theorem on the order mappings. There it was are bounded. Now, th ch permits to make sim the considered region,	s assumed that the author formulat	e considered rees (without pro	egions and oof) a her cases,	
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16(1)	Prilanko A.T.	and Suvorov, G.D.	50V/42-14-1-18/27	ESTATUS E
	Functions (Odna	teorema susnemest	nt Sequences of Analytic vovaniya dlya skhodyashchikhsya kh funktsiy)	
PERIODICAL: ABSTRACT:	Theorem: In the the point wo be which contains sequence of schanalytic in z point z on z of arbitrary schanalytic schanalyti	w-plane let be graph of the infinitely far alicht functions $\{f\}$ which converge $\{f\}$ so that the sequences $\{f\}$ $\{f\}$,	yen a bounded continuum K. Let nent of the complement of K point. Then there exists a $n(z)$, $f_n(0) = w_0$, $f_n'(0) > 0$, s uniformly in $ z < 1$, and a t of all points of condensation $\lim_{n \to \infty} z_n = z_0$, $ z_n < 1$ is	
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16(1) AUTHOR:	Suvorov, G.D.		s0y/39-48-2-7/9	
TITLE:	Corrections to	the Paper "On the I ppings of Closed S	eformation of the Distances imply Connected Domains"	
PERIODICAL:	Matematicheskiy	sbornik, 1959, Vol	48,Nr 2,pp 251-252 (USSR)	
ABSTRACT:	The author give	s some corrections y sbornik, 1958, Vo and corresponding	of the above mentioned paper 1 45,pp 159-180). By a change changes in the proofs all	
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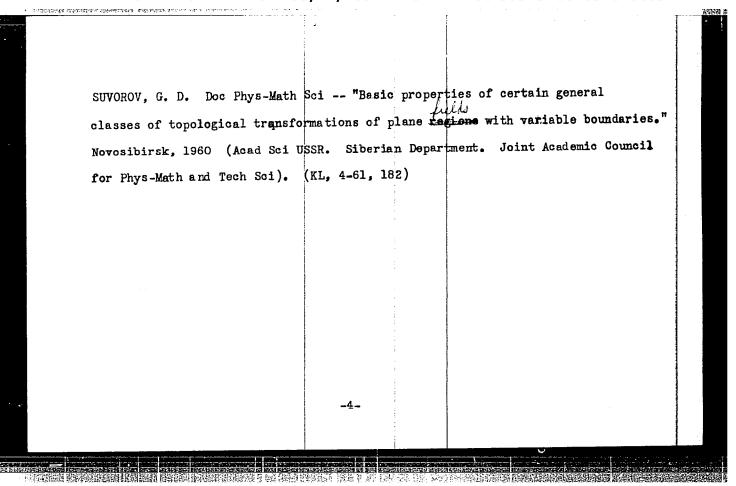
16(1)	Suvorov, G.D.	:	sov/20-124-4-11/67
AUTHOR: TITLE:	Boundary Correspond of Plane Regions : pri topologicheski	kh otobrazheniyakh sami)	ploskikh oblastey s
PERIODICAL:	Doklady Akademii r	auk SSSR, 1959, Vol	124,Nr 4,pp 772-774 (USSR)
ABSTRACT:	It is shown that to of domains converged only for conformal more general mappietc. mappings). There are 5 references	the theory of simpling to a non-degen mappings (compareings too e.g. for he results partly of ences. 3 of which a	e ends of plane sequences erated kernel, holds not Suvorov Ref 1 but for quasiconformal, harmonic, verlap with those of Lelong- re Soviet, and 2 French.
ASSOCIATION	State University	iment A. A. Walalance	imeni V.V.Kuybysheva (Tomsk
PRESENTED:	October 13, 1958,	by M.A.Lavrent'yet	, Academician
SUBMITTED:	October 7, 1958		
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AFFROV	/LD OK KELLASE: US/14/2001 CIA-KDF00-00315K0010	J-1020005
220	On the Components of the Level Sets of the Function to a Plane Continuum Doklady Akademii nauk SSSR, 1959, Vol Let K be a bounded continuum in the plane P and $r = g(M, M)$ be the distance between the point $M \in M$ be the distance between the point $M \in M$ Theorem: Let E_r^{∞} be a component of E_r component of the open set $P \setminus E_r^{\infty}$ which contains K; let G_r^{∞} boundary of G_r^{∞} . Then all simple ends of G_r^{∞} contain one it is $E_r^{\infty} = G_r^{\infty}$ and it holds: I. For all $r > 0$ the E_r^{∞} may belong only to the following 1. simple closed rectifiable Jordan curve; 2. simple of Jordan arc; 3. sum of finitely or countably many closed Jordan curves, smooth arcs, etc.; 4. point. The closed curves in the types	(USSR) K) = S(M) set E of nnected ** be the point each; types: ten smooth simple
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	ing a language in the contract of the contract	જ્યાન સામે પ્રાથમિક પ્રાથમિક સ્ટેક્સ સ

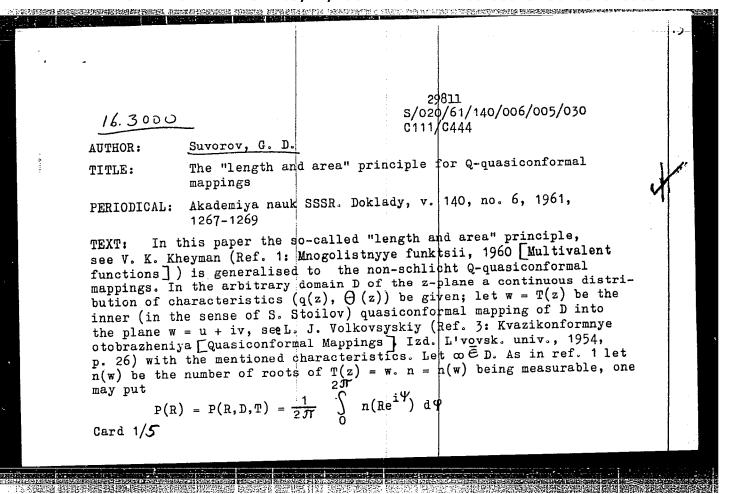
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•	countably many level sets E. If the components of the dypological countably many level sets, a countable number appear also only for countably many level sets have the components of then at most countably many level sets have the components of
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	then at most countered then at most countered then type 4. IV. Let $\Delta = \Delta(\alpha, r, \delta)$ be the set of those points of G_r^{α} the type A_r^{α} . Let A_r^{α} be
	IV. Let $\Delta = \Delta(\alpha, r, \delta)$ be the set of those points r . IV. Let $\Delta = \Delta(\alpha, r, \delta)$ be the set of those points r . then δ , $0 < \delta < r$. Let Δ be distance of which from E_r is smaller than δ , $0 < \delta < r$. Let Δ be
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	distance of which from E_r is smaller than σ , the boundary of Δ . Then $\Delta^* \setminus E_r = \Gamma(\sigma, r, \delta)$ is a simple closed the boundary of Δ . Then $\Delta^* \setminus E_r = \Gamma(\sigma, r, \delta)$ be its length and $\Gamma(\sigma, r)$ be
	-mach Tordan curve. Let I(V)11
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	the "length" (α ,r) = 1(α ,r, δ) ± 2 $\pi\delta$.
	(1) $1(\alpha,r) = 1(\alpha,r,\delta) \pm 2\pi\delta$. The set $\bigcup \Gamma(\alpha,r,\delta)$ is a two times connected region and
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	$(2) \qquad \qquad 1(x,r) = r$
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PERIODICAL: DO ABSTRACT: Th co de c t	Theorem on the Security of the	ences of Topological Compacts SSSR, 1959, Vol 129, 1,2,, be a sequence (X,8) (with the meth respect to the gical mappings of A are $T_n(0) = 0'$, $n=1$, ied: a) The mapping (or $\{T_n^{-1}\} \subset \{T_n^{-1}\}$) ect to the point C the mappings $\{T_n^{-1}\}$ the kernel (with	ir 4,pp 744-746 (ence of domains of tric 9) having a repoint 0. Let $\{T_n(x)\}$ onto domains B_n onto domains B_n 2, Let the form of an arbitrary (or with respect (or T_n^{-1}) are simultaneously respect to 0) of the sequence $\{B_n^{-1}\}$	of the ollowing sub- open in to 0') of oltaneously the	
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defined so that ∞ $\{A_p\}$ converges to A_p	
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converges to Bo, as a kernel; Y) {Tpn} cof Ao to the topological mapping The state of Ao to the topological map	
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of A_0 to the topological mapping T of th $\begin{cases} T_p^{-1} \\ p_n \end{cases}$ converges uniformly inside of	0,
The definitions of the notions kernel etc.	c. are analogous to
those in the plane case.	
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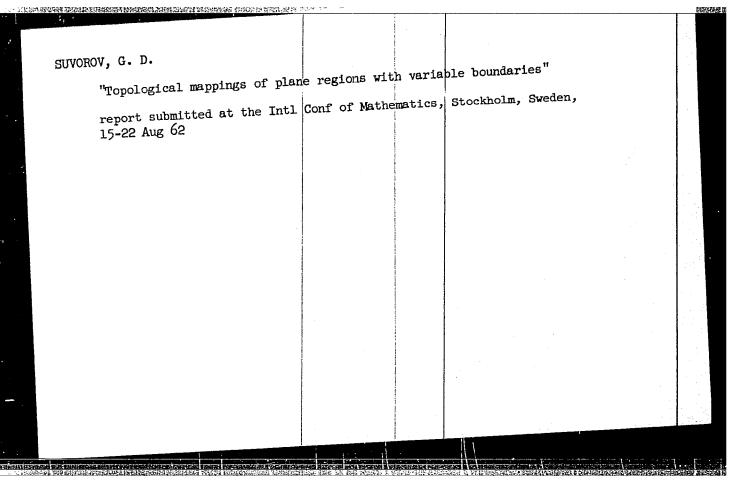
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The "length and area" principle	2981 S/020 C111/	/61/140/006/005/030	
where the integral is a Lebesgue integrateric (r) is considered which is obtained the z-plane on the Riemannian sphere the plane in the origin of coordinates.	led by	stereographic projection	**
Theorem 1: Let $w = T(z)$ be a Q-quasicon of D into the w-plane. If $L_r(R) \equiv L_r(R)$ the spherical metric (r)) of the curves then $\int_0^\infty \frac{L_r^2(R)dr}{RP(R)} \leqslant 2\pi' QS_r(D)$ where $S_r(D)$ is the spherical area of D.	D.T) i	s the total length (in	
in the ordinary Euclidean metric, there	If D h follow	as the finite area S(D)	
$\int_{0}^{\infty} \frac{L^{2}(R)}{RP(R)} dR \leq 2 \pi QS(R)$		(2)	
where $L(R) = \lim_{r \to \infty} L_r(R)$. For $Q = 1$ or $Card 2/5$	e obta	ins the inequality on	

	29811 S/020/61/140/006/005/030 The "length and area" principle C111/C444 which ref. 1 is based.
**	For application of (1), (2) the following examples are given: 1) if D is: $ z < 1$ and $T(z) \neq 0$ in D and $ T(0) = R_1$, $ T(re^{i\varphi}) = R_2$
	for $0 < r < 1$, $0 \le \varphi < 2$, then
	$\begin{vmatrix} R_2 & \frac{dR'}{RP(R)} \\ R_1 \end{vmatrix} \leq 2C \left(\ln \frac{1+r}{1-r} + \Pi' \right) $ (3) 2) if $\int_{R_1}^{R} P(S, D, T) dS^2 \leq pR^2$, $0 \leq R \leq \infty$ (p > 0 and not necessari-
	ly an integer) (Ref. 1, p. 32,), (supposing T \neq 0 in D, 0 < r < 1),
	$\frac{ T(0) }{ ^{2pQ+1/2}} \left(\frac{1-r}{1+r}\right)^{2pQ} < T(re^{i\varphi}) < T(0) e^{2pQ+1/2} \left(\frac{1+r}{1-r}\right)^{2pQ} $ (5).
	Now let D be simply connected, $\omega \in D$. Let $S_1 = \xi_1 + i\gamma$, $\xi_2 = \xi_2 + i\gamma_2$, Card $3/5$
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是一种,我们就是一种,我们就是一个人的。这一个人,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的。 第一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们	K36
The "length and area" principle C111/C444 $\begin{cases} 1 < \xi_2 \text{ be two attainable boundary points of D. The straight lines} \\ 1 < \xi_2 \text{ be two attainable boundary points of D. The straight lines} \\ 1 < \xi_2 \text{ be two attainable boundary points of D. The straight lines} \\ 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1$	
value of u on l _x , then it holds: . , Theorem 2: if	
$\int_{x_1}^{x_2} \frac{dx}{\theta(x)} > 2, \text{ then}$	
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s/0020/64/154/003/0523/0526 ACCESSION NR: AP4013319 AUTHORS: Ovchinnikov, I.S.; Suvorov, G.D. Transformation of the Direchlet integral and space mapping TITLE: AN SSSR. Doklady*, v. 154, no. 3, 1964, 523-526 SOURCE: TOPIC TAGS: Direchlet integral, Direchlet integral transformation, space mapping, three dimensional mapping, conformal mapping, topology, fundamental sequence, Cauchy sequence ABSTRACT: The inequality expressing the length and area principle has found wide application in the theory of plane mappings (conformal, quasi-conformal and the more general ones). This inequality, as well as a number of its modifications, can be obtained by simple transformations of the Direchlet integral for a plane representation. If the problem is to find a class of representations, a class of admissible domains and the relative distances introduced by compatibility, then the problem of boundary agreement with the topological representation y = T (x), $x \in A$, $y \in B$ can be reduced to Card 1/3

ACCESSION NR: AP4013319

prove that, with a direct and inverse representation T and T⁻¹ Cauchy sequence will turn into the fundamental. This problem is automatically solved if it is possible to find the functions φ , (α) and φ_2 (α) so that φ . (α)—0 with α —0, and such that

 $\varphi_1 \left[\rho_A \left(x', x' \right) \right] \leqslant r_B \left[T \left(x' \right), T \left(x' \right) \right] \leqslant \varphi_1 \left[\rho_A \left(x', x' \right) \right] \tag{1}$

for any points x', $x'' \leftarrow A$ which are sufficiently close with respect to ρ_A . This was expanded to apply to three dimensional mapping. The examined classes of representations include the class of Q-quasiconformal mappings, translating the domains into domains with a bounded volume. The classes of the D and \triangle domains can be expanded by means of introducing a spherical metric, defining the relative distances by this metric and examining the spherical analogy of the Direchlet integral. This method can permit simplification even in an n-dimensional case. Orig. art. has: 8 equations.

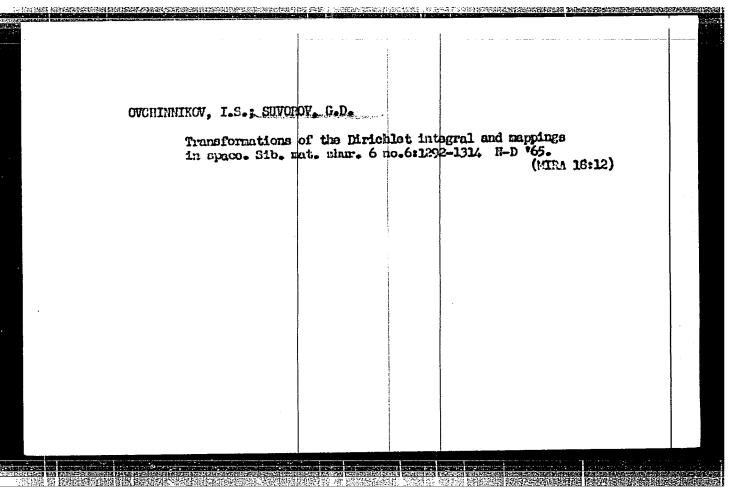
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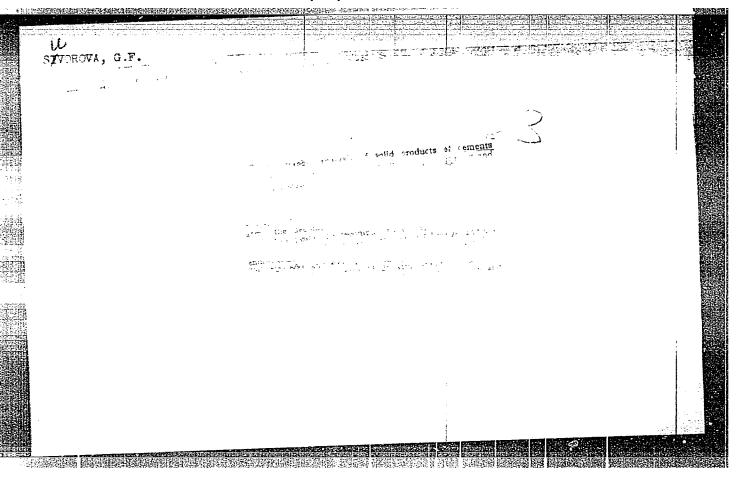


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,	AUTHORS: Ovchinnikov, I. S.; Suv	orov, G. D.	35 B	
	ORG: none		<i>y</i>	
	TITLE: Dirichlet-integral transf	orms and three-dimen	sional mappings	
·	SOURCE: Sibirskiy matematicheski	y zhurnal, v. 6, no.	6, 1965, 1292-1314	
	TOPIC TAGS: integral transform, bounded function, Euclidean space PROBLEM ABSTRACT: Proofs of theorems and Preobrazovaniya integrala Dirikhl SSSR, 154, No. 3 (1964), 523-526) expressed by the inequality	ounced earlier (I. S	. Ovchinnikov and G. D. Suvorov. e otobrazheniya, Doklady Ak. nauk ncipal theorem of the method is	
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	where $M_0 = \frac{(8\pi)^2}{\Gamma^4(^3/4)}$ and $\mathcal{D}_{r_1;r_2} = \frac{1}{r_1}$	$\bigcup_{[r_i,r_i]} S_r'$. It is show	m that for all values of r, the	
	integral	$\int\limits_{S,t}\Lambda(f,x)ds$		
	Card 1/2	8,	VDC: 517.54	
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is finite. A theore	em containing the upper bound	of distortions of ordinary distances
within an arbitrary	domain for monotone mappings	is given. The concept of relative
distance in a metri	domain is introduced	
	$\rho(x',x'';D\setminus 0) =$	$=\inf d[K]$
	stance in the closed sphere-or uclidean distances in closed s	sed domain-image is given in terms iginal. The upper and lower bounds pheres mapped onto one another are
proved	$\langle \varphi_1(x'-x'') < f(x')-f(x) $	$ x'' < \varphi_2(x'-x''),$
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· ·	$\varphi_1(\alpha) = \frac{1}{2} \exp\left[-\frac{4M_0}{\alpha}\right]$	$I(f^{-1} \Delta)A/\alpha^3$,
	$\varphi_2(\alpha) = [4M_0I(f,D)]^{1/2}$	hn-1/1/2a.
		ity of obtaining in general a distances in mappings of a closed
Tambara Jamain . The	accord manning example shows	the Impossibility of the
in the same general	situation. Orig. art. has: 4	8 iorimias.
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BOGOROI	Clinical aspects of 61 no.4:497-500 '6	of cranioverte	nnof D K	hur. nevr. i psikh. (MIFA 14:7 .Bogordinskiy) I .P.Pavlova.)

SUVORCV-, GS		
	USSR/Mathematics - Schlicht Functions Jun/Aug 53 "Simple Termini of a Sequence of Plane Regions That Converges to a Nucleus," G. S. Suvorov, Tomsk	
	Mat Sbor, Vol 33 (75), No 1, pp 73-100	
	Systematically studies sequences of schlicht functions $f_n(z)$ that are continuously convergent in a circle. Cites the related work of A. I. Markushevich ("Conformal Representation of Regions with Variable Boundaries," Mat Sbor. 1 (43), 1936). Presented 19 Jul 52.	
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Dissertation: "Lyophili Central Inst. for Advance	ic Desiccationed Training	n as a Method of Physicians	of Pres	erving Standard 47.	Strains."	
60: Vechernyaya Moskva		i	1			

8/271/63/000/003/010/049 A060/A126 AUTHOR: Suvorov, G.V. Graphic method of constructing transient processes in an automatic TITLE: regulation system PERIODICAL: Referativnyy zhurnal, Avtomatika, telemekhanika i vychislitel naya tekhnika, no. 3, 1963, 50 - 51, abstract 3A287 (In collection "Elektroprived i avtomatiz. prom. ustanovok", Moscow - Leningrad, Gosenergoizdat, 1960, 68) The author proposes a method of construction for transient processes in automatic regulation systems. The essence of the method consists in the following: 1) a system of first-order differential equations in dimensionless relative units is constructed for the given system; 2) the values of all the quantities which enter in the equations of the system in the time-interval are determined. This method makes it possible to raise the precision even when a large time-step is used for integration. [Abstracter's note: Complete translation] M. M. Card 1/1

PRING LECTION OF SOCIETY OF SOCIE	(Electric Drive and automation in Industrial Systems Transactions of the Conference Massow, Gossargoisada, 1960, 470 p. 11,000 copies printed. General Kas: I. P. Petro, A.A. Sirotta, and M.G. Chilatha Els.; I.I. Sud, and R.P. Silaywy Tech. Els.; K.P. Voromin, and O.Te. Larimoov. PURPOSI: The collection of reports is intended for the scientific and technical personnel of satestific research institutes, plants and schools of higher vibration.	COTESLEE: The book is a collection of reports submitted by scientific workers at platte, actentific institutes and echools of higher observations at the third Joint All-thing on Confessor on the intensity of librarial Processes in Menine Mailiting and Automated Libertic Drives in Industry baid in Moncoc on Rey 1-66, 1999. The Gonesses was called by the Actenty of Sciences 1953, the Gospins SSR (State Planuing Commission SSR), the GOLIE SSR, the Gonesses of Commission SSR, the Golier of Automatic of the Actenty of Sciences 1953, the Menine Building And the Menine Menine Building and the Menine Automatic Controls and urrepart the Automatic Commission and Menine Building and the Menine Automatic Controls and urrepart to the	Rucknow-elabalisatily hemitts to strongistivorances elativoprivols (Solentific and Technical Committee on Mironated Electric Drives), the WII (Monow Institute of Inscention and Teleschanica) of the instance (Solence (SS), and the Endmissip, to thimbolical manhimostroped, in Latitute anabhoredantys 18 SSR (Commission on the Technology of Monito Bhilding of the Institute of Solence of Working to the Leatest of Englishment of the Mischell of the Leatest of Solence (Monito Bhilding of the Institute of Solence of Working the Working of Monito Solence of the Leatest of Solence (USB).	would searure a rulatively systematic presentation of theoretical and practical problems rulating to electric drives and entomatic contribut of industrial becknisms used in various branches of industry. Basic problems of industrial becknisms and that a relation are outlisted. The book takes occurred articles on a lectric mechanismy and seems of subcention, Comsiderable etention is paid to non-	constant submarks accurate agency and present submarks and the surbmarks and the surbmarks and the surbmarks and the submarks of the submarks and the parts already published it juvuals or official published those which is juvuals or official published these which we appeared to rother a the former of the submarks of the submark	are pentioned. Reference accompany case of the paper. PARTIC STRICT PROTECT THE TEXTS AND PRACTICE OF EXPERTED BRITE AND APPOINTING CONTROL.	Mary, B.H., Doctor of feelmies! Sciences, T.O. Sorrier. Fracessor, Doctor of feelmies! Sciences, M.Y. Morgipor and W.B. Planel ville, Definers. Intention of the Oldustions of Electric frives by Mans or Restroic Dictal Computers.		Espandid, Rufle, Engineer. Investigation of the Drawic Properties of a Model deserved Spates by the Method of Experimental Frequency-thatponss	and:	. Antoron, 6.7., Refuser. Graphic Mathod of Designing Transient Processes is an Aufomalia Englation System Surfaming Man Space. Surfaming Man Surfaming Applitude-Pass Characteristics of the Automated Righter Price. Per Pr. P.	hadymor, Is, B., Cantidate of Technical Sciences. Problems of Electric Drives of Mechanisms Containing Lines With Distributed Parameters	Marioner, Nu.P., Engineer. Effect of Iransiant Electromagnetic Processes on Fulse Ragulation Dynamics of Squirrel-Cage Induction Motors	<u>Maddymive_List</u> , Cardidate of Tephnical Sciences, Docent. Dynamics of Industion Energies Controlled According to V.S. Enlabatin's Scheme.	Drobrato, A.L., Candidate of Technical Sciences. Absorbing Brain Equili- Brium is Mostrie Drives Mith Individual Constraing Sets Macharin, A.L., Frofessor, Doctor of Technical Sciences. Granks Math.	Traitiseis of Elsektro-Drive Automatio-Control Systems Beresblat, M.4., Doctor of Technical Sciences, and M.4. Boyardsahov, Engineer. Beresting DC Drive With Namelia Applitiers 66. 16.	
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obyazannosti dotsenta SUVOROV, Gennadiy Vasil yevich, starshiy prepodavatel TANEYEV, Yuriy Aleksandrovich, inzh.	
Use of mathematical simulation for improving the dynamic properties of the electric drive of the Blooming shears.	
Izv. vys. ucheb. zav.; elektromekh. 4 no.4:54-61 '61. (MIRA 14:7)	
1. Kafedra elektrooborudovaniya promyshlennykh predpriyatiy	1
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Taneyev). (Electric driving)	
(Electromechanical analogies)	

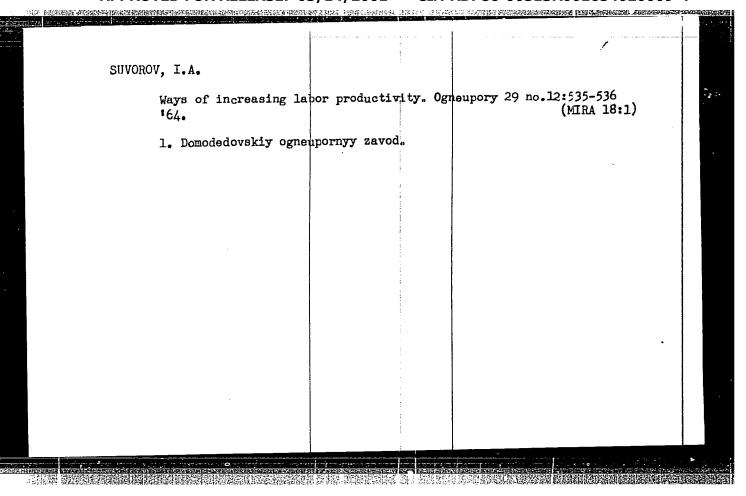
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CC NR: AP7001418 (N) SOURCE	CODE: UR/0413/66/000/021/0133/0133
NVENTOR: Suvorov, G. V.; Gul	iyants, R. Ts.
RG: none ITLE: Device for the automa	tic measurement of mean wind direction.
class 42, No. 188073	hlennyye obraztsy, tovarnyye znaki,
10. 21, 1966, 133	tion, wind direction instrument, wind
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	ACC NR. AR7002213 (AN) SOURCE CODE: UR/0271/65/000/010/A029/A029	! †
-	AUTHOR: Bortsov, Yu. A.; Shestakov, Yu. S.; Suvorov, G. V.	
	TITLE: Experimental determination of the parameters of nonlinear systems in electric drives	
	SOURCE: Ref. zh. Avtomatika, telemekhanika i vychistel'naya tekhnika, Abs. 10A215	
-	REF SOURCE: Sb. Avtomatizir. elektroprivod proizv. mekhanizmov. T. I. ML., 1965, 206-208	
	TOPIC TAGS: nonlinear system, electric drive,	
	ABSTRACT: A method of determining the parameters of elements in electrical drive systems is discussed. A description is given of a device which was developed on the basis of this method and which permits sufficiently rapid determinations of the parameters necessary for modeling nonlinear systems in electrical drives. The dynamics of nonlinear electromagnetic elements (excitation circuits of electric machines, EMU, MU, amplidynes, magnetic amplifiers, etc.) which are the basic	
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lements in drives, is c	bonootonino	d hu m	agnetival	ion curve	s the den	nagnetiz	ation	
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		iustment of a r	adio re	lay line using RM-24/A (MIRA 15:5)	
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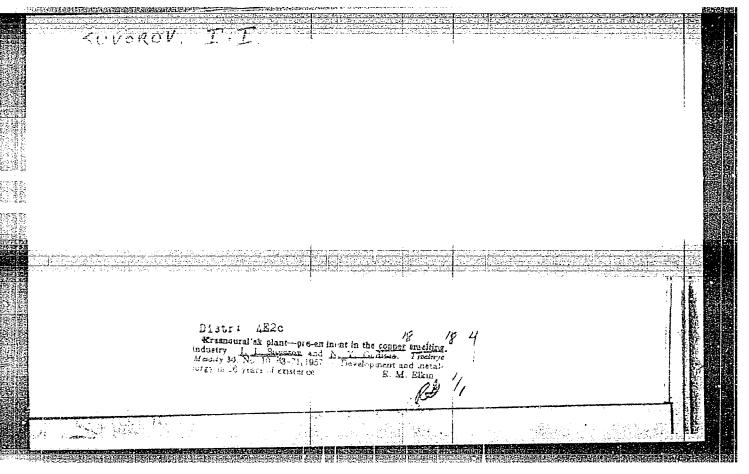
SUVOROV, I. F.						
Kurs vysshei matematiki "Sov. nauka", 1953, 295	(Course in hi	her mathem	atics). I	Dlia tekhnikumov.	Moskva,	
SO: Monthly List of Rus	sian Accession	s, Vol. 7,	No. 6, Se	ep. 1954		
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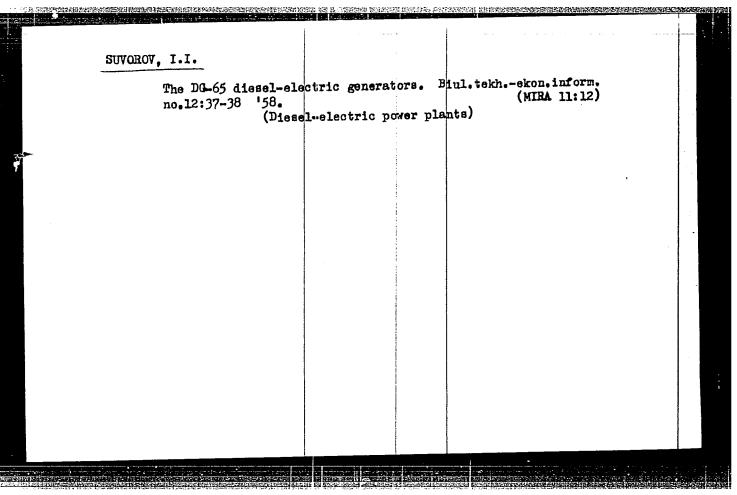
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SUVOROV, I. K., Engineer					
"Effect of the Outer Parts of a Rolling." Sub 20 Dec 51, Moscow Orde Stalin	Strip on Con er of Labor I	ditions Red Bann	of Metal Deformation in er Inst of Steel imeni I.	٧.	
Dissertations presented for scient	ence and eng	ineering	degrees in Moscow during	1951.	
SO: Sum. No. 480, 9 May 55					
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PAVLO	V, I.M.; SUVOROV, I.K.,	kandidat tekh	icheski	ch nauk.	
	Effect of the outer rolling. Sbor. Inst.	parts of the stall no.31:17	trip on -211	the deformation of metal (MIRA 9:9)	
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FURMAN	Yakov Borisovich	SUVOROV I	K., redaktor; GOI	YATKINA, A.G., cheskly redaktor	
	[Assistant operates sortowykh stanov. chernoi i tsvetnom (Rolling material)	ors of shape Moskva, Go i metallurgi	mills] Podruchnyi s. nauchno-tekhn.	val'tsovshchika	

18(0) sov/163-58-4-23/47 Suvorov, I. K. AUTHOR: Determination of Forces in Edging Semifinished Material : TITLE: on a Continuous Rolling Mill (Opredeleniye usiliy pri kantovanii raskatov na nepreryvnykh stanakh) Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Nr 4, PERIODICAL: pp 134-140 (USSR) The method and examples for computation of the metal pressure ABSTRACT: on the edger rolls are given. Changes of stress distribution are examined in the cross section of a round bar at the transition from elastic torsion (I) to elastic-plastic torsion (II) without consolidation and to plastic torsion (III) without consolidation. The moments required in elastic and plastic torsion of a cylindrical bar are determined. Formula (1) makes it possible to determine the torque at the elastic torsion of the cylindrical bar, as well as the tangential stress on the circumference and in the cross section of the bar if the torque is known. Formula (2) permits to determine the torque at plastic torsion of the bar. Both formulas only apply to a round bar. To determine the stresses at elastic torsion of a bar with any cross section, the method of Card 1/3

Determination of Forces in Edging Semifinished Material on a Continuous Rolling Mill

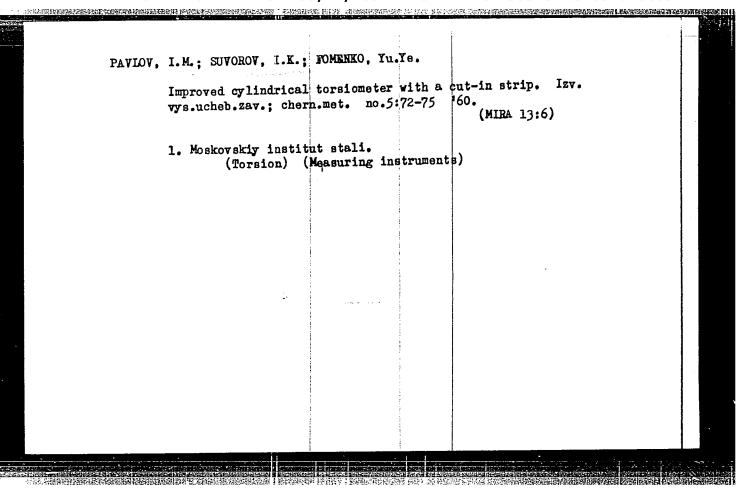
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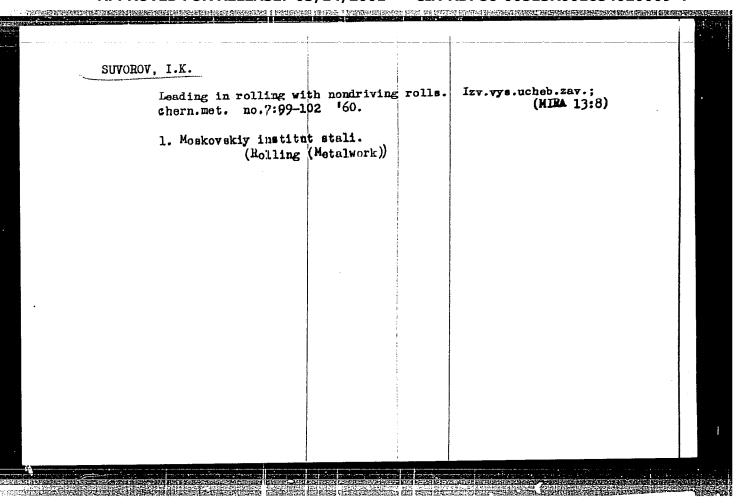
Prandtl (Prantl') is much in use | Prandtl suggested to make use of the analogy with a membrane or a soap film. This method permits to pass on to the analysis of torsion of bars with noncircular cross section beyond the elastic limit with help of the analogy suggested by Nadai (Ref 2) representing a development of the membrane analogy. On account of this, a formula is obtained which corresponds to formula (2) derived in quite a different way. This confirms the applicability of Nadai's method for determining the torque at plastic torsion of bars. Formula (3), which is given here, determines the twisting moment of the square strip to be edged at the transition from a square box pass to a diamond pass, for instance, and formula (4) at the transition from a rectangular box pass to a square one. As such operations are usually done in continuous rolling mills, the metal pressure on the edger rolls is here determined. Formula (5) derived permits to determine the full pressure on the contact surface of the edger rolls. Finally an example is given. There are 6 figures

Card 2/3

Détermination Material on a	of Forces in Ed Continuous Roll	ging Semifin ing Mill	nished		SOV/163-58-4-23	/47	
	and 2 Soviet re	ferences.					
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	Speed of horizontal metal deformation during drawing. Izv. vys.ucheb.zav.; chern.met. no.5:68-71 60. (MIRA 13:6)	
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S/148/60/000/009/013/025 A161/A030 Pavlov, I.M., Suvorov, I.K., and Fomenko, Yu.Ye. An investigation of scale on free-cutting steel and its AUTHORS: effect on friction in rolling TITLE: Izvestiya vyssnikh uchebnykh zavedeniy. Chernaya metallurgiya, PERIODICAL: no. 9, 1960, 95-101 TEXT: Free-cutting steel causes difficulties in rolling, i.e. the grip of the rollers is not firm, the rollers slip on metal, the metal cracks and tears. Same difficulties are experienced with this steel abroad. The steel per GOST 1416-54 standard contains 0.08-0.30% S, up to 0.15% P and 0.45% C. Sulphur content spmetimes reaches 0.5%. The causes of the trouble in rolling have not yet been investigated and no data on the matter exist in works on the melting, deoxidation and teeming of free-cutting steel (Ref.1-4). The described investigation has been carried out in rolling in a "750" billet mill, with free-cutting "A12" and "A12A" and structural steel for comparison. Scale was collected from under the rolls in the mill Card 1/6

An investigation of scale ...

S/148/60/000/009/013/025 A161/A030

portions of ingots and from rolled strip. It varied only insignificantly. Conclusions: 1) A difficult grip is characteristic of free-cutting steel compared with other steel grades. 2) The chemical composition of the scale changes in the rolling process, particularly the sulphur content. 3) The softening point of the scale collected in the rolling process is in the range 850-1050°C, and the softening point is lower with a higher sulphur content. 4) Increased sulphur content in the scale makes the gripping difficult. 5) The segregation of sulphur is insignificant in rolled steel and in ingots. 6) Sulphur segregation is not clearly expressed in steel with a high sulphur content; the sulphur content difference is low on a different level and across in the ingots. 7) The sulphur distribution is more even in free-cutting steel deoxidized with aluminum, and the size of sulphurous inclusions is smaller. 8) The sulphur distribution improves in rolled metal during the rolling process. This is more clearly expressed in "A12A" steel deoxidized with aluminum. There are 5 figures, 3 tables and 5 Soviet-bloc references.

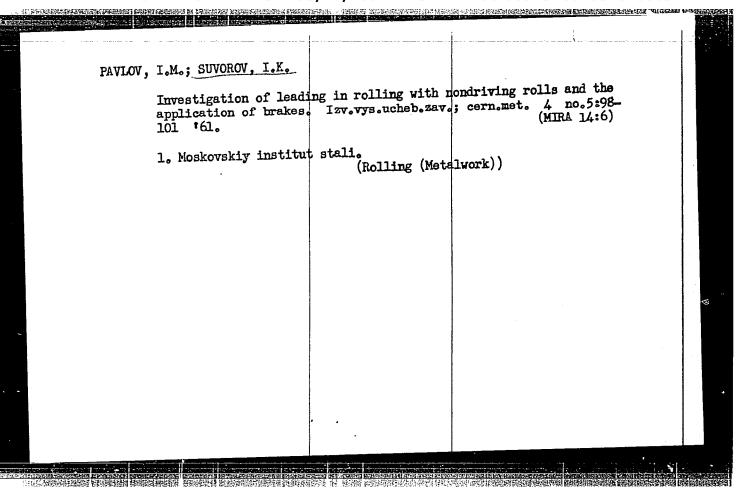
ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: 26 January 1960

Card 3/6

\$/148/60/000/011/006/015 Investigation of free-cutting steel alloyed as well as the machinability and mechanical properties. Experiments have been carried out to this end at the electrometally rgical laboratory of the Moscow Steel Institute. The most even distribution in sulfides has been found in ingots alloyed with 0.19 % Ti. The mach nability was tested by the standard "Two-cutters method" consisting in cutting with two cutters on a lathe (in this instance one cutter was carbile tipped and the other made of free-cutting steel), with electric wires welded to the cutters and connected to a galvanometer; the e.m.f. appearing in the ciruit due to different thermoelectric properties of the cutters is proportional to the heat forming in the metal being machined, and the higher the resistance to cutting is, the higher the current in the circuit. "A12" steel with 0.19 % Ti had the same machinability as the common steel without Ti, but the machinability was perceptibly worse when the Ti content was over 0.2 %. The friction factor in "A12" steel with 0.2 % Ti was considerably higher than in normal "A12" steel and even higher than in rolling the CT.3 (St.3) steel. Conclusion: Sulfurous 'A12" steel with tiltanium has a high machinability, high friction factor in rolling and will cause no gripping diffi-Card 2/3

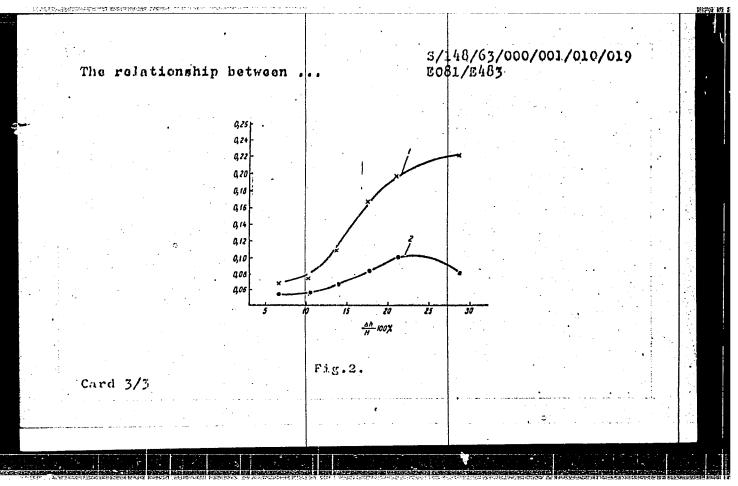
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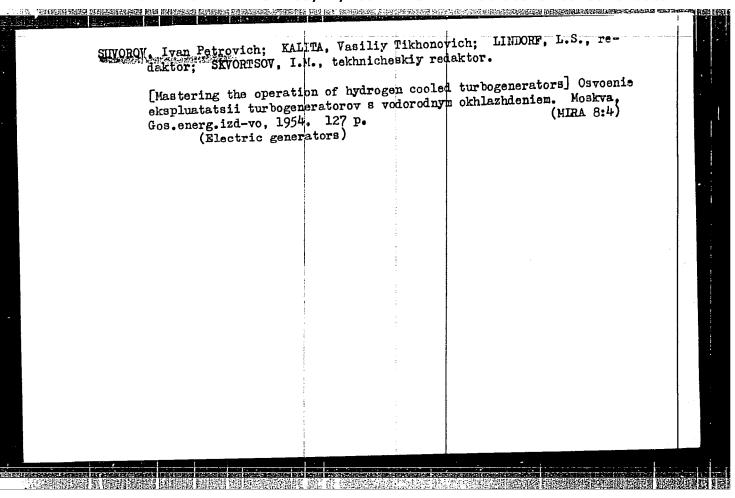
5/148/63/000/001/010/019 E081/E483 Suvorov, I.K. AUTHOR: The relationship between the contact friction and TITLE: stress state conditions in plastic deformation of metals PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no.1, 1963, 106-110 A new method is described of determining the friction coefficient f in rolling. The advantage of the method is that it does not require elaborate equipment, the measurements being carried out on a pair of free-running, undriven rolls provided with a dynamometer for measuring the roll force. The conditions obtaining in various rolling processes are simulated by pushing or pulling the test piece between the rolls. Using the results of his earlier work, the author derived a formula for f; its simplified form is $f = \frac{Q - p \cdot B_{av} \cdot \Delta h}{2p \cdot B_{av} \cdot r(2\gamma - \alpha)}$ (3) where Q - the pushing or the pulling force, p - the roll pressure,

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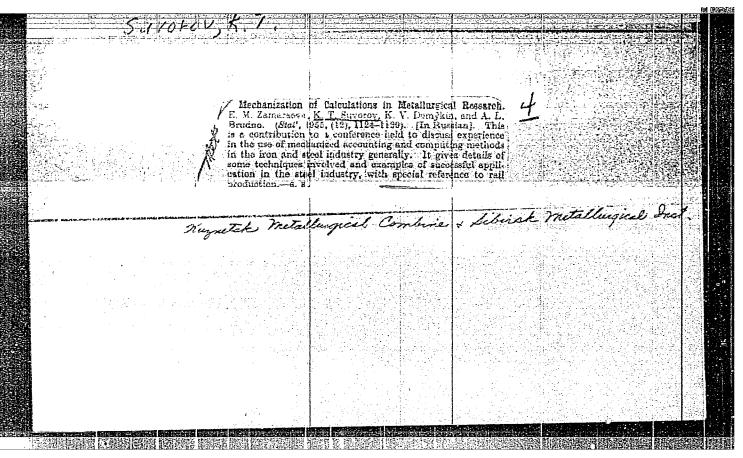


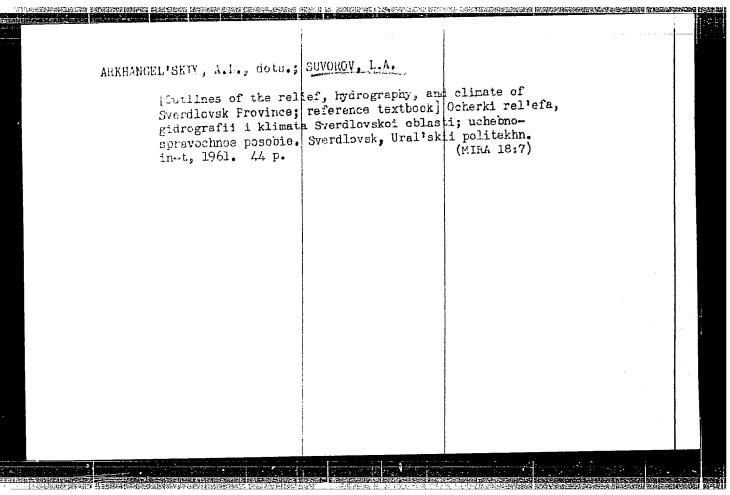
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	1.	SUVOROV, K. C.		
	2.	U33R (600)		
	4.	Poultry - Feeding and Feeding Stuffs		
	7.	Using liquid yeast as poultry feed. Ptitsevodstvo no. 8, 1952.		
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	9.	Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.		
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SUVOROV ,	Use of antibiotics a 32 no.8:61-63 Ag '55	the Kuntsevskaia po	nltry plant. Veterinariia (MIRA, 8:10)	
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	: ROH	Suvorov, L.U.	en kaya "goryachaya" laboratoriya) to 100 Curies (Dlya raboty s
TIT	LE:	For Works at 110 hours	
PEF	RIODICAL:	Atomnaya Energiya, 1950, Vol.	4, Nr 3, pp. 304 - 305 (USSR)
ABS	STRACT:	is roughly sketched and	hot" cell approved in practice an aintained that every organ-not too small a workshop can
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A Small "Hot"	S9-3-20/30 Solution For Works at Preparations up to 100 Curies
	windows through which the total interior can be seen. The left department, which is equipped with rubber gloves going through it, is assigned for α and β-activities, which come from the middle chamber after the packed or documentered there. In the right department the physical measurings of the radio-active preparations are carried out. In the middle department mainly the decay of strong preparations is to take place. There are 2 figures.
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SUVOROV, Leonid Mikhaylovich; PITADE, N.A., inzh.retsenzent; SHKLYAR, R.Sh., kand.tekhn.nauk, red.; YERMAKOV, N.P., tekhn.red.	
[Elements of X-ray detection of defects; a manual for X-ray operators]	
Elementy rentgenodefektoskopii; posobie dlia rentgenos dmshchikov. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 122 p.	
(X raysIndustrial applications) (MRA 11:2)	
(Machinery industryQuality control)	

An Apparatus for the Contactless Measurement of the SOV/32-24-7-48/65 Electric Conductivity of Electrolytes and Other Metals

system of the apparatus caused this way are measured by a microammeter. A graphical representation of measuring curves obtained with aqueous solutions of sulfuric acid and caustic soda is given; from it may be seen that the measuring scheme has a sufficient accuracy. For a certain specific conductivity a definite operation frequency is recommended. The apparatus described may be used in the chemical analysis of diversematerials, as, for instance, in soil investigations, corrosion investigations etc. There are 2 figures.

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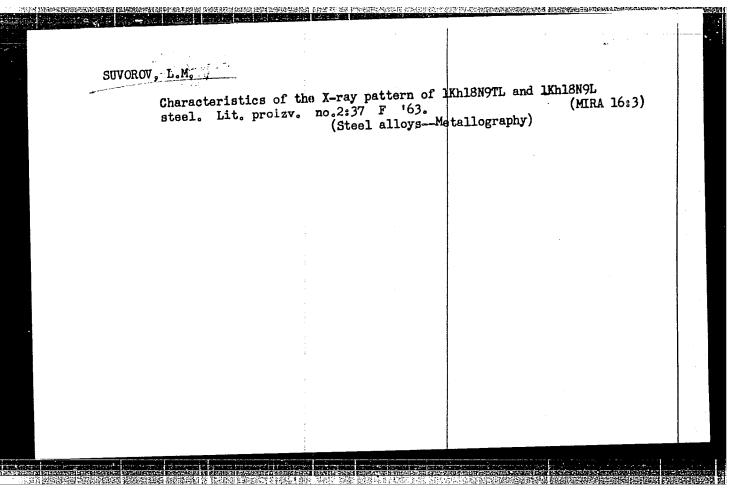
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	Detectioning metallor; shornly statey (*law Detection in Wetala; Collection of Articles) Mastow, Obstructs, 1999, 459 p. Errata slip inserted, 4,590 copies printed.	Ma.; D.S. Ehrsyber, Candidate of Technical Gaiences; Zd.: H.G. Ingolidays; Tech. Ma.: V.P. Boshin; Managing Ed.: A.S. Zaymorskaye, Engineer.	PGES: This book is intended for engineers and techn of nondestructive inspection and testing of netals.	EMCE: This collection of articles deals with methods of nondestructive is gestion and testing of packeds (smulte of investigation conducted it selection are assisting of packeds smulte or investigations conducted it intended to the selection are alternated and administration are intended to the development of the articles are presented in non-forter countries. No personalities are sentioned by Magnetic or Purts by Alternating Current and Inspection 19, Magnetical Method.	Northes, D.G. Messuring Memostic Piells on Parts of Intricate Shape and Imspection of Blades by the Memostic-particle Method	Automatic Flas Datactor for Inspecting Mess-produced Steel	Repidestwenkly, 8.14., and 0.70. Sila-Nortekly. Electromagnetic Induction MERGI of Fig. Devection	Dabaton, I.S. Some Methods and Instruments for Bondestructive Impedition of the faichness of Costings on Parts	Nythemynl'd, Y.E. Practical Application of Elector destructive festing	Service, Lie., Flow Detaction in Light-alloy Parts by the Electromagnetic Tomorion Method	Anythenko, P.A. High-frequency induction instrument for Detecting Gracks and integratedian Correcton	Polynk, H.V. Fluorescent-punatrunt Flaw-datection Method and the Experience Gained by Its Use in Machine Pullding	int'sin', 8.P. Maporio and Fluorescent-penetrant Inspection of Parts in Un Highly and Berricing of Aircraft Equipment	Charactaristic Festurys of the Use of the Fluorescent-paretrant specting Parts	Bondstructive Magnetic Methods for Messuring	Electrical Thichness Gage for Measuring Anodized Coatings of Parts	Thermoelectrical Nethod of Measuring Thichnesses of Electro-	Thermoelectrical Method of Inspecting the Quality of Bonds	Use of Dack-scattering Bota-radiation for Inspecting stings	Carnobrovov, S.V., Bew X-Ray Equipment and Image Recorders for X-Ray Flass Presention	Chemobrovov, B.V. X-Ray Tube With Rotating Anoda	Lange, Ta.V., and G.V. Fronkov. Equipment for Ultrasonic Inspection	tends, Thate, and Daß, Bhrayber, Gen	Milk, A.d., Characteristic Peatures of the Pulse-Lobo Type Ultrasonic Fiz- Metertion Method	Dargin, M.E. Ultraconic Flow-detection in Porgings and Valuation of first of the Defects herealed.	Manyme, D.S., and T.L. Yamin, Processing and Yesting Materials
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Control of Metallic Details by Means of Eddy S/032/60/026/009/005/018

Currents Using a Movable Coil.

conductivity of the metal, f = current frequency), The highest measuring sensitivity is achieved when the current frequency is selected in such a way that the value $k\delta$ for the maximum metal thickness does not exceed 0.5. In Fig. 3, a diagram is shown for selecting the frequency for some metals and alloys at $k\delta = 0.5$. When determining the thickness of platings, the sensitivity and accuracy of the method increases with the difference in the electrical conductivity of the base material and plating. One can also determine the thicknesses of double-layer metal platings according to the eddy-current method, if a difference in the electrical conductivity of the plating metals and the base exists, it being necessary, in so doing to operate with three frequencies. If, on the other hand, the electrical conductivity is determined, the effect of the metal-layer thickness must be completely eliminated by a suitable selection of the frequency (from the diagram in Fig. 3). The eddy-current method can be applied for the determination of material defects in nonmagnetic materials, since various material defects reduce electrical conductivity. The maximum depth down to which material defects can be determined, corresponds to a value of $k\delta = 0.8-0.9$ and only depends on

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1 X 18H 9 TJ (1Kh18N9TL)

s of the above mentioned

AUTHOR: Suvorov, L. M.

TITLE: Special features of X-ray photographs of 1 X 18H 9 TJ (1Kh18N9TL)

and 1 X 18 H 9 J (1Kh 18 N9L) steels

PERIODICAL: Liteynoye proizvodstvo, no. 2, 1963, 87

TEXT: On the X-ray photographs of some castings of the above mentioned steel grades dark spots and lines may be observed which, according to experience are indications of shrinkage, porosity, etc. in the steel structure. However, the micro- and macroanalyses of such castings did not actually reveal the flaws expected from the interpretation of the films. Upon investigating the causes of this phenomenon it was found that the "pseudo-defects" as indicated by the X-ray film mostly occur in ribbed castings or in those with protruding flanges, thin bridgings, etc. (some examples are given in a figure). It is supposed that upon penetrating these configurations, the X-rays are diffracted and produce in the case of ribs, projections, etc. dark spots on the film. When the surface of these configurations forms a slight angle with the orientation of the X-rays,

Card 1/2

Special features of ...

S/128/63/000/002/002/002 A054/A126

lines will appear on the radiograph. Two means are suggested to neutralize this effect: increase the thickness of ribs, projections 2 - 3-fold by arranging a steel strip under them or, if their structure has not to be investigated, surround them with a 1 - 2 mm thick lead strip; if it is not possible to reduce the X-ray diffraction by this measure, the sector in question has to be X-rayed a second time from a distance of 3 - 10 cm in such a way that the position of the casting is somewhat shifted in relation to the X-ray tube. If thereupon the shape of the dark spots or lines changes, then it may be taken that there is no flaw in the metal structure. Another feature of the IKhilnoff, radiographs is that it may show a lamination indicating the orientation of crystallization in the solidifying metal. There is 1 figure.

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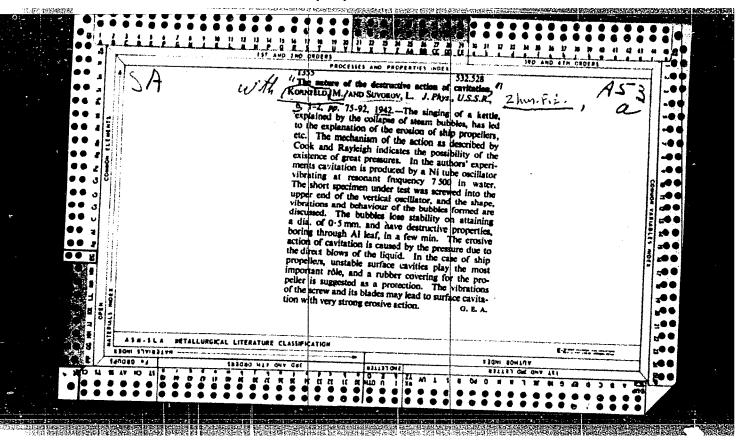
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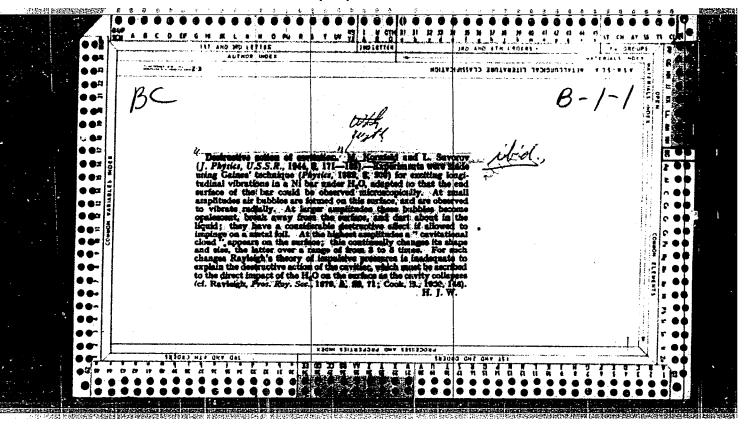
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32-3-36/52 AUTHOR: Suvorov, L.N. TITLE: An Electric Induction Device for the Investigation of Cracks in Parts Made From Nonmagnetic Alloys (Elektroinduktivnyy pribor dlya obnaruzheniya treshchin v detalyakh iz nemagnitnykh splavov) Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 3, pp. 354-356 (USSR) PERIODICAL: ABSTRACT: The plant recommended works in accordance with the principle of the generation of eddy currents in nonmagnetic metal, which are influenced by existing cracks or other material defects and can thus be investigated. The basic components of the device are a generator an oscillatory circuit and a recording device, as may be seen from a schematical drawing. Graphs of investigations carried out with two different alloys are given. It was found that, in the case of cracks located lower down, a low height of the crack, and a larger intermediate layer, accuracy of observation is reduced. The cylindrical probe used for investigations has a magnetic conduction line consisting of Armco iron foils and is constructed in such a Card 1/2 manner that a considerable decrease of the "boundary effect" is

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An Electric	Induction Device for the In Parts Made From Nonmagneti	nvestigation c Alloys	32-3-36/52	
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AUTHORS:	Ershler, B. V.,	Torlin, B. Z., Suv	S/089/60/009/01/01/011 B014/B070	
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